FEATURES

Fully certified and integrated Type 1 AIS AtoN with internal rechargeable battery. Designed for quick and easy deployment on even the smallest buoys. Able to operate for over 5 days between charges or connect directly to an external power source for permanent installations. Unique secure quick fit bracket system.

- Certified Type 1 AIS AtoN
- Integrated and protected GPS & VHF antennas
- Internal rechargeable battery
- Ultra low power consumption
- Easy to install with no wiring

CERTIFICATION

This product is fully tested and certified to the relevant international standards and product specifications (FCC (USA), Industry Canada and R&TTE (CE) Type Approval).

SPECIFICATIONS

<table>
<thead>
<tr>
<th>AtoN Functions</th>
<th>GPS Receiver and Antenna</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Type 1 FATDMA operation only</td>
<td>• 50 channels</td>
</tr>
<tr>
<td>• Message #21 transmission only</td>
<td>• IEC 61108-1 compliant</td>
</tr>
<tr>
<td></td>
<td>• Internal GPS antenna</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical</th>
<th>Environmental</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Dimensions: 375mm x 67mm max. (H x D)</td>
<td>• IPx6 and IPx7 rated for water ingress</td>
</tr>
<tr>
<td>• Weight: 350g (AtoN Express unit only)</td>
<td>• IEC 60945 ‘Exposed’ category</td>
</tr>
<tr>
<td>• Mounting bracket min / max pole diameter: 25mm to 55mm</td>
<td>• Operating temperature: -15°C to +55°C</td>
</tr>
</tbody>
</table>
**SPECIFICATIONS**

**Electrical**

- Power supply: Built in 2100mAh Lithium-Ion rechargeable battery pack
- Operating time: Up to 5 days operation at 5 minute reporting interval
- Optional external power supply (12 to 24VDC)
- Power consumption from external 12 V supply < 1Ah / day with 3 minute position reporting interval
- Power consumption from internal battery < 0.4Ah / day

**VHF Transmitter & antenna**

- Transmitter x 1
- Output power: 1 Watt EIRP
- Frequency: 156.025 to 162.025 MHz
- Channel bandwidth / step: 25KHz
- Modulation GMSK (AIS, transmit)
- Bit rate: 9600 b/s (GMSK)
- Internal VHF antenna

**Designed to be compliant with the following standards**

- AIS Standard: IEC62320-2 Ed. 1 2008-03, AIS AtoN Stations
- Environmental: IEC60945 2002-08
- GPS Performance Standard: IEC61108-1 2003-07

**Interfaces**

- USB for configuration only
- Optional: External power supply connection

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**SPECIFICATIONS – POWER BOX / CABLE**

<table>
<thead>
<tr>
<th></th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage range</td>
<td>9.6V</td>
<td>31.2V</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average power</td>
<td>1.2W</td>
<td></td>
</tr>
<tr>
<td>Average supply current</td>
<td>100mA</td>
<td>80mA</td>
</tr>
<tr>
<td>Peak supply current</td>
<td>1.2A</td>
<td>0.9A</td>
</tr>
</tbody>
</table>

The AtoN Express is not supplied with a power cable; it is the responsibility of the installer to fit an appropriate connection to the internal PCB-mounted connector block in the Power Box. The cable must be of a suitable gauge and meet the required IP rating.
SUPPLIED WITH (in the box)

- AIS AtoN Express with integrated VHF & GPS antennas
- Mounting bracket and fixings
- USB configuration dock and charger
- Configuration software
- User and installation guide
- Power pack

INSTALLATION

INSTALLING THE ATON EXPRESS BRACKET
FITTING THE ATON EXPRESS TO BRACKET

1. Remove the power box lid
2. Connect the power cable
3. Connect the electrical cables

Specifications and features may change without prior notice.